

6-3-1

BC

Determination the unsaturation and lime requirement of soils. I. vol Geiky and I van Tobok (Proc 2nd. Internat. Congr. Soil Sci., 1932, 4, 175-180). Variations in the technique adapted in determining the hydrolytic acidity of soils by treatment with $\text{Ca}(\text{HCO}_3)_2$ lead to marked differences in the vals. obtained which are not comparable in soils of different type. Soils are classified as unconditionally CaO deficient and conditionally CaO deficient and characteristic limiting vals. of ph and hydrolytic acidity (Kappen) associated with the classification are recorded for various solid types.

AIA-11A METALLURGICAL LITERATURE CLASSIFICATION

FROM LIBRARY INDEX NUMBER DATE RECEIVED

STANDARD 100 INDEX NUMBER DATE RECEIVED

STANDARD 200 INDEX NUMBER DATE RECEIVED

KAZAR, Gyorgy, dr. VOLCZ, Jozsef, dr.

Injuries in adolescence treated in an outpatient clinic.
Nepegeszsugugy 45 no.5:186-187 My'64

1. Kozlemeny a VIII. ker. Szanto Kovacs J. u.-i Rendelointezet
(Igazgato: Galcsik, Boldizsar, dr.) kozponti baleseti ambu-
lanciajarol).

L 22686-66 EWT(m)/T/EWP(t)/ETI IJP(c) JD/JG
ACC NR: AP6012727

SOURCE CODE: UR/0136/66/000/004/0067/0070

AUTHOR: Kolchin, O. P.; Sumarokova, N. V.; Vol'dman, M. A.

ORG: none

TITLE: Kinetics of the combined carbothermic reduction of niobium and tungsten

SOURCE: Tsvetnyye metally, no 4, 1966, pp 67-70

TOPIC TAGS: vacuum furnace, chemical reduction, niobium, tungsten, niobium compound, /VVPS-10A type vacuum furnace

ABSTRACT: This is a continuation of a previous investigation (O. P. Kolchin et al. Tsvetnyye metally, 1964, no 7) with the difference that it deals with a detailed investigation of the kinetics of the combined carbothermic reduction of Nb and W from the mixtures of the oxides and carbides of Nb and alloy elements at various temperatures, the degree of reduction being determined according to the change in the C content of specimens following their heating in a VVPS-10A type vacuum furnace. In the reduction products the W content was determined by the photocalorimetric thiocyanate method, correct to 3-5% (rel.); the Nb content, according to weight gain when heating the specimen in air; and the C content, by the volumetric method. It was found that in the presence of W the degree of the reduction of $Nb_2O_5 + 5NbC$ at 1200 and

Card 1/2

UDC: 669.293'27.094.2

Card 2/2 BLG

CZECHOSLOVAKIA

VOLDAN, B.

No affiliation given

Bratislava, farmaceuticky obzor, No 1 [Jan] 1967, pp 38-44

"Some methods of treating plague during epidemics in the past. Part 1."

CZECHOSLOVAKIA

VOLDAN, B.

No affiliation given

Bratislava, Farmaceuticky obzor, No 2 [Feb] 1967, pp 77-84

"Some methods for handling epidemics of plague in the past. Part 2."

Voldan B.

FECAK, B.; GEORCH, D.; VOLDAN, B.

CSFR

Dept of Galenic Pharmacy and dept. of biochemistry and microbiology of the
Pharmaceutical Faculty of Comenius University, Bratislava (katedra galenickej
farmacie a Katedra biochemie a mikrobiologie Farmaceutickej fakulty UK v
Bratislave), LOEKUNZ, Bratislava (for all)

Bratislava, Farmaceuticky Obzor, No 1, 1963; pp 11-20

"Some Data on the Conservation of Ophthalmological Preparations"

(3)

CZECHOSLOVAKIA

GEORCH, D; FECAK, B; VOLDAN, B.

1. Chair of Galenic Pharmacy of the Pharmaceutical Faculty UK (Katedra galenickej farmacie Farmaceutickej fakulty UK), Bratislava; 2. Chair of Biochemistry and Microbiology of the Pharmaceutical Faculty UK (Katedra biochemie a mikrobiologie Farmaceutickej fakulty UK), Bratislava

Bratislava, Farmaceuticky obzor, No 2, 1963, pp 58-62

"On the Question of the Conservation of ~~E~~ Ophthalmological Preparations."

CZECHOSLOVAKIA

GEORCH, D; FECAK, B; VOLDAN, B.

1. Chair of Galenic Pharmacy (Katedra galenickej farmacie), Bratislava; 2. Chair of Biochemistry and Microbiology of the Pharmaceutical Faculty of UK (Katedra biochemie a mikrobiologie Farmaceutickej fakulty UK), Bratislava

Bratislava, Farmaceuticky obzor, No 4, 1963, pp 157-162

"~~Re~~ Possibilities of Use of Septonex ~~xxx~~ as a Conservation Means in the Preparation of Collyrium."

VOLDAN, J.

Electric inductivity of glass and of molten rock.

p. 139. (Veda a Vyzkum v Prumyslu Sklarsken. No. 1, 1956, Praha, Czechoslovakia)

Monthly Index of East European Acquisitions (EMI) Iu. Vol. 7, no. 2,
February 1958

VOLDAN, Jan

Czechoslovakia /Chemical Technology. Chemical Products I-12
and Their Application

Silicates. Glass. Ceramics. Binders.

Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 31549

Author : Voldan Jan

Title : Effect of Oxidative and Reducing Fusion on
Properties of Cast Stoneware.

Orig Pub: Sklar a keramik, 1956, 6, No 11, 264-270

Abstract: Study of properties of experimental cast articles
made from eight varieties of acidic and basic
rocks of Czechoslovakia (melaphyre, amphibolite
basanite, nephelinite, diabase, etc.), produced
under conditions of oxidative (OF) and reducing
fusion (RF), in a laboratory furnace heated with

Card 1/4

Czechoslovakia /Chemical Technology. Chemical Products I-12
and Their Application

Silicates. Glass. Ceramics. Binders.

Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 31549

city gas. The fusions were conducted at 1350-1400° for 2-2.5 hours. To provide the conditions of OF 10% NH_4NO_3 were added to the batch, 1-2% graphite, or 2-5% coke, were added for a RF, while neutral fusion (NF) were conducted without any addition to the batch. The cast specimens were cooled slowly in an electric furnace heated at 600°. Chemical analysis showed that the $\text{FeO}:\text{Fe}_2\text{O}_3$ ratio is 2.15-7.40 in RF specimens, 0.5-1.0 in OF, and about 1.0 in NF specimens. Differential thermal analysis revealed a most clearly manifested reaction of Fe_3O_4 -formation and crystallization of pyroxenes in RF specimens.

Card 2/4

Czechoslovakia /Chemical Technology. Chemical Products I-12
and Their Application

Silicates. Glass. Ceramics. Binders.

Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 31549

On annealing of the specimens at 830-840° for 24 hours, greatest deformation and compression of the surface layer was observed in RF specimens, which indicates their tendency to undergo secondary crystallization. The RF specimens show also a higher coefficient of thermal expansion, considerably greater resistance to abrasion, higher electric conductivity, hardness and chemical stability to the action of HCl, their compression is 35-65% higher than that of OF specimens. The high crystallization capacity of RF specimens was noted (about Fe_3O_4 nuclei a rapid crystallization of pyroxenes takes place) to which the author attributes, essentially, the improved

Card 3/4

Czechoslovakia /Chemical Technology. Chemical Products I-12
and Their Application

Silicates. Glass. Ceramics. Binders.

Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 31549

properties of the specimens. As a result of the
study a RF of casting stoneware is considered
as being the best technological solution.

Card 4/4

COUNTRY	: CZECHOSLOVAKIA
CATEGORY	: Chemical Technology. Chemical Products and Their Uses. Part 2. Ceramics. Glass. Binding*
ABS. JOUR.	: RZKhim, No. 1 1960, No. 1935
AUTHOR	: Valdav, J.; Zahradnik, L.
INST.	: Central Institute of Geology
TITLE	: Use of Differential Thermal Analysis in the Study of Crystallization of Fused Melaphyres
ORIG. PUB.	: Sb. Ustredni. uctava geol. Odd. geol., 1957 (1958), 24, No 1, 113-128
ABSTRACT	: The process of crystallization of volcanic melaphyre glass in Lomnice and Dolni Kalne was studied. During heating, magnetite (740-780°), monoglititic pyroxene (885°) and plagioclase (1060°) crystallize successively. Fusion of the separated minerals takes place at a temperature >1110°. The minerals obtained
	*Materials. Concrete. Glass
CARD:	1/2

VOLDAN, J.; ZAHRADNIK, L.

"Use of differential thermal analysis in the investigation of the crystallization of melted melaphyre"

Sbornik. Oddil geologicky. Praha, Czechoslovakia. Vol. 24, no. 1, 1957 (published 1958)

Monthly list of East European Accessions (EEAI), LC, Vol. 8, No. 6, Jun 59, Unclassified

VOLDAN, J.

"Recrystallization laws of melted rocks. p. 97."

SILIKATY. Praha, Czechoslovakia. Vol. 3, no. 2, 1959.

Monthly list of East European Accessions (EEAI), LC, Vol. 8, No. 6, Jun 59, Unclas.

COUNTRY	:	Czechoslovakia	H-13
CATEGORY	:		
ABS. JOUR.	:	ÂZKhim., No. 21 1959, No.	75559
AUTHOR	:	<u>Voldan, J.</u>	
EDITION	:	Not given	
TITLE	:	Surface Phenomena in Glass in the Light of Modern Physicochemical Methods	
ORIG. PUB.	:	Sklar a Keramik, 9, No 1, 16-20 (1959)	
ABSTRACT	:	A survey of work done on surface phenomena in glass (ion exchange, adsorption of various ions and its dependence on temperature, pH, and composition of the glass, catalytic phenomena, corrosion of the surface layer and its mechanism, diffusion of ions in glass) and of the methods used in their investigation with special emphasis on the application of tracer methods. The bibliography lists 26 titles.	

V. Berenfel'd

CARD: 1/1

VOLDAN, J.

Differential thermal analysis of medium acid melted rocks. p. 125.
(SILIKATY, Vol. 1, No. 2, 1957, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, No. 12, Dec 1957. Uncl.

VOLDAN, J.

Use of isotopes in the glass industry and related branches. p.170.
(Sklar A Kermik, Vol. 7, No. 6, June 1957, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC. Vol. 6, No. 9, Sept. 1957. Uncl.

VOLDAN, J.; PALECEK, M.

Effect of the temperature, concentration, and duration of the reagent on the chemical endurance of melting rocks.

p. 297 (Silikaty) Vol. 1, no. 3, 1957, Praha, Czechoslovakia

SO: MONTHLY INDEX OF EAST EUROPEAN ACCESSIONS (EEAI) LC, VOL. 7, NO. 1, JAN.1958

VOLDAN, Jan, RMDr. CSc.

Secondary crystallization of fused rocks. Sialar a keramik 14
no. 7:207 J1 '64.

1. State Institute of Glass Research, Bratislava Kralove.

VOLDAN, J.

Study on the basic raw material for sintered basalt.

P. 53 (Vodni Hospodarstvi) Vol. 5, No. 10, Oct. 1957, Czechoslovakia

SO: MONTHLY INDEX OF EAST EUROPEAN ACCESSIONS (EEAI) LC. - VOL. 7, NO. 16, JAN. 1958

VOLDAN, J. : PALECEK, M.

Chemical durability of melted rocks; laboratory experiments.

P. 79 (Vodni Hospodarstvi) Vol. 5, No. 10, Oct. 1957, Czechoslovakia

SO: MONTHLY INDEX OF EAST EUROPEAN ACCESSIONS (EEAI) LC. - VOL. 7, NO. 1, JAN. 1958

VGLDAN, J.

Some Czech phonolites as raw material for glass, Pt. 2, p. 270,
SKLAR A KERAMIK (Ministerstvo lehkeho prumyslu) Praha, Vol. 4,
No. 10, Oct. 1954

SOURCE: East European Accessions List (EEAL) Library of Congress,
Vol. 4, No. 12, December 1956

VOLDAN, J.

"Phenomena appearing on the glass surface from the point of view of modern physical-chemical methods." P. 16.

SKLAR A KERAMIK. (Ministerstvo lehkeho prumyslu). Praha, Czechoslovakia, Vol. 9, No. 1, Jan. 1959.

Monthly list of East European Accessions (EEAI), LC, Vol. 8, No. 8, August 1959.
Uncla.

VOLDAN, J.

Electric properties and constants of glass. p. 34. KIAR KERAMIK.
(Ministerstvo lehkeho prumyslu) Praha. Vol. 5, no. 11, Nov. 1955.

SOURCE: East European Acquisitions List, Vol. 5, no. 9, September 1956

VOIDAN, J.

Electric properties and constants of glass. (To be contd.) p. 15.

SKLAR A KERAMIK Vol. 6, no. 1, Jan. 1956

Czechoslovakia

Source: EAST EUROPEAN LISTS Vol. 5, no. 7 July 1956

VOLDAN, JAN

Czechoslovakia/Electricity - Dielectrics, G-2

Abst Journal: Referat Zhur - Fizika, No 12, 1956, 34988

Author: Voldan, Jan

Institution: Vyz. Ustav, Gradec-Kralove, Czechoslovakia

Title: Electric Properties of Glass

Original

Periodical: Sklar a keramik, 1956, 6, No 2, 34-38; Czech

Abstract: Brief survey of electrical properties of glass

Card 1/1

VOLDAN, Jan, RNDr.

Crystallization rate of main phases separated from the
basalt melt. Sklar a keramik 13 no.1.291-295 N'63.

1. Statni vyzkumny ustav sklarsky, Brnoec Kralove.

Chemical stability of natural rocks
particularly from Volcanic and Eolian facies
in the Brooks Range (Czechoslovakia) was studied
(Mazurkova, 1979, 1980). English analytical
methods were used and analytical norms
DIN 1911, DIN 2110 and DIN 1912.
More than 100 samples of natural U (Uranium)
assay (III) were analyzed. The samples were
then subjected toward H₂O acids (10% HCl
(I), 10% of H₂SO₄ and H₂NO₂). They
were resistant toward H₂O and bases (acidic
(I, II, or III) of the raw material. The resistance
was highest for II, lower for I and lowest
for III. Erosion of the rocks had a pronounced
effect on the resistance, which was reduced especially in
the acidic media (referenced).

Alexej B. Strelcov

Stability of
natural rocks
toward
H₂O acids
and bases
in the
Brooks
Range
were used
(I), 10%
acidic
rocks
in the
state
toward
III. The
acidic
from
acidic
media
resistance

VOLDAN, JAN

CZECHOSLOVAKIA / Chemical Technology. Chemical Products and Their Application. Ceramics. Glass. Binding Materials. Concretes. ^H

Abs Jour: Ref Zhur-Khimiya, No 19, 1958, 65159

Author : Voldan Jan

Inst : -

Title : A Few Examples of the Utilization of Radioisotopes in the Glass Industry and in Related Fields

Orig Pub: Sklar a keramik, 1957, 7, No 6, 170-175

Abstract: In a series of examples, the possibility is shown of using radioactive isotopes (RI) for the solution of some technological problems. Thus, for example, the use of RI of sodium, calcium, barium, and phosphorus permits an investigation of the flow of the glass mass in fire baths, the degree of homogenization, the period of melting, et cetera.

Card 1/3

CZECHOSLOVAKIA / Chemical Technology. Chemical Products and Their Application. Ceramics. Glass. Binding Materials. Concretes. H

Abs Jour: Ref Zhur-Khimika, No 19, 1958, 65159

Abstract: ness of applied layers of glaze, enamel, or other coatings, as well as for the removal of electrostatic charges that appear because of the friction of those and other particles on one another.

Card 3/3

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001860420014-5

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001860420014-5"

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APPROVED FOR RELEASE: 03/14/2001

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"APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001860420014-5

APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001860420014-5"

VOLDAN, J.

Selection of rocks for petrologic purposes. (To be contd.) p. 14.
SKLAR A KERAMIK, Praha, Vol. 5, no. 1, Jan. 1955.

SO: Monthly List of East European Accessions, (EEA), LC, Vol. 4, no. 10, Oct. 1955,
Uncl.

L 25088-65	ENP(e)/EWT(m)/EWP(b)	Pg-4	WH	
ACCESSION NR:	IP4044480	Z/		013/64/000/008/0220/0221
AUTHOR:	Voldan, Jan (Doctor of natural sciences, candidate of sciences)			
TITLE:	Controlled crystallization of fused cast materials			B
SOURCE:	Sklar a keramik, no. 8, 1964, 220-223			
TOPIC TAGS:	controlled crystallization, fusion casting, glass additive, fluorine additive, nucleation			
ABSTRACT:	Products from molten rock, which served as scarce metals, are now important refractory and chemical materials. Only their unsatisfactory and irregular mechanical properties prevent their more frequent use. In the present paper, the theory of manufacture on a laboratory and commercial scale and the properties of the products are discussed. Most of the work done up to now has been within the Soviet block. As nucleation additives, TiO ₂ , MnO ₂ and chromite are generally used. The different phases occurring in these melts are described, and their properties, while improved, still do not equal those of vitreous melts. The author presumes that the high Fe content (12-14%) of basalts			
Card:	1/3			

L 23088-65
ACCESSION NR: AP4044480

is not beneficial. Therefore, attention is drawn to materials with a lower Fe content and to more acidic rocks, like phonolite and granite. Since these have a very high melting point and an undesirably viscous consistency, cheap materials like calcite and dolomite are added to lower the viscosity and to improve the nucleation and crystallization properties. As nucleation additives, fluorine compounds (CaF_2 , Na_3AlF_6 or Na_2SiF_6) are used. Many patents mention fluorine as a nucleation agent. During the production of these melts, ground ingredients have to be used, and basalt can be used as a base material. Precautions have to be taken to minimize the risk of explosion. The melting point of phonolite is 1400°C, and of granite 1500°C. The melting point of basalt is 1350°C for the most. The melting point of dolomite is 1300°C. The melt is melted at 1300°C or above, in metal molds. Crystallization starts at 700-800°C. Molds are placed in ovens when they are below 900°C, to induce good nucleation, and are then heated slowly to 850-900°C to achieve fine-grain crystallization. If heated above 900°C, deformation could occur. As the main ingredients, 50-75% phonolite and granite are used. The mechanical and physical properties of these materials are presented. These materials cannot yet replace basalt-based products, but should find some economical uses. Further studies will be undertaken in this direction. Orig. art. has: 8 figures.

Cont 2/3

L 23088-65

ACCESSION NR: AP4044480

ASSOCIATION: Statni vyzkumnny ustav - Vitriny, Hradec Kralove (State Glass Research Institute)

SUBMITTED: 00

ENCL: 00

SUB CODE: MT

NO REF Sov: JC 7

NUMBER

Card 3/3

VOLDAN, Jan, RNDr. CSc.

Oriented crystallization of fused rocks. Sklar a Keramik 14, no.8:
220-223 Ag '64.

1. State Institute of Glass Research, Hradec Kralove.

VOLDAN, M.

Toxicity and glycemic activity of guanidine derivatives. Cesk. farm.
1 no.8:434-439 Sept 1952. (CIML 23:2)

1. Of the State Institute for Control of Pharmaceutical Preparations.

VOLDAN, M.

VOLDAN, M.

Biologic standardization of insulin preparations. Cesk. farm., 2
no. 10-11:360-363 Nov 1953. (CIML 25:5)

1/6 Of the Collective of Biochemical Laboratories.

"APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001860420014-5

VOLDAN, M.

APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001860420014-5"

3/1

CZECHOSLOVAKIA

M. TRNKOVA and M. VOLDAN, State Drug Control Institute (Statni ustav pro kontrolu leciv,) Prague.

"Determination of Amino-Acids and Mixtures Thereof by Conductometric Titration."

Prague, Ceskoslovenska Farmacie, Vol 12, No 4, May 63; pp 182-188.

Abstract [English summary modified]: Conductometric analysis of amino acids and some of their mixtures and salts in aqueous media was found practicable and gives comparable results to those of other common procedures used. Weak bases such as pyridine, triethylamine and ammonia were found suitable, the latter being usually the best. Ten graphs, 2 tables; 5 Czech, 2 Soviet and 27 Western references.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001860420014-5"

1/1

VOLDEN, M

CZECHOSLOVAKIA / Chemical Technology, Chemical Products and
Their Application, Part 3. - Drugs, Vitamins, Anti-
biotics.

H-17

Abs Jour : Rof Zhur - Khim., No 14, 1958, No 47817

Author : M. Volden.

Inst :

Title : To the Pharmacopeion Article on Protamine-Zinc-Insulin.

Orig Pub: Ceskosl. farmac., 1957, 6, No. 7, 386 - 388

Abstract : Two methods of biological evaluation of protamine-Zn-
insulin were studied; the method with the weakening of
protein bonds is recommended based on the presented results
and the present situation in the industry.

Card 1/1

TRNKOVA, M.; VOLDAN, M.

Biological evaluation of the effectiveness of globin-Zn-insulin
injection. Cesk. farm. 13 no.5:245-247 Je'64

1. Statni uslaz pro kontrolu leciv, Praha.

TRNKOVA, M.; VOLDAN, M.

Determination of amino acids and their mixtures by conductometric titration. Cesk. farm. 12 no.4:182-188 My '63.

1. Statni ustav pro kontrolu leciv, Praha.
(AMINO ACIDS) (CHEMISTRY, PHARMACEUTICAL)

VOLDAN, M.

Use of chromatography and polarography in determination of
insulin solutions for injection. Cesk. farm. 4 no.8:407-409
Oct 55.

1. Ze Statniho ustavu pro kontrolu leciv.

(INSULIN

 inject. solution, evaluation by chromatography
 & polarography)

(CHROMATOGRAPHY

 of insulin solution for inject.)

(POLAROGRAPHY

 of insulin solution for inject.)

VOLDAN, M.

Determination of free insulin in supernatant fluid of protamine-zinc-insulin suspensions for injections. Cesk.farm. 4 no.3:125-126
Apr 55.

1. Ze Statniho ustavu pro kontrolu leciv v Praze.

(INSULIN, determination,
free insulin in supernatant fluid of protamine-zinc-insulin suspensions for injections)

VOLDANOVA, A; VOLDAN, V.

Antihistaminics in the local treatment of eczema with special
reference to antihistamin Spofa. Cesk. derm. 27 no. 3-4:167-174
June 1952. (LL/M 22.3)

1. Of the Dermatological Department (Head--Docent J. Obertel,
M. D.) of State District Hospital, Bulovka.

VOLDAN, V.

Xanthoma diabetorum. Cas. lek. cesk. 89 no. 37:1032-1034
15 Sept. 1950. (CIML 20:1)

1. Of the Skin Department of the State District Hospital
in Prague VII(Bulovce) (Head--Docent Jan Obrtel, M. D.).

VOLDANOVA, A;VOLDAN, V.

Antihistaminics in the local treatment of eczema with special
reference to antihistamin Spofa. Česk. derm. 27 no 3-4:167-174
June 1952. (CLML 22;3)

1. Of the Dermatological Department (Head--Docent J. Obrtel,
M. D.) of State District Hospital, Bulovka.

VOLDANOVA, A.

Experience from a study trip to dermatological and venerological laboratories in the USSR. Cesk. derm. 40 no.6:412-417 D '65.

1. Katedra dermatovo-venerologie UDL v Praze (vedouci doc. dr. A. Kuta, CSc.).

VOLDANOVA, A.

Epidemiological status of gonorrhea in the world. Cesk. derm.
39 no.6:394-397 D '64

1. Lecetne preventivni odber ministerstva zdravotnictvi v
Praze.

OBRTIEL, J.; VOLDANOVA, A.

Concept of the discipline of dermatovenereology. Cesk.derm. 38
no.6:377-387 D '63.

VOLDANOVA, A.

Staphylococcal anatoxin in chronic skin diseases of staphylococcal etiology. Cesk. derm. 39 no. 5:315-319 S '64.

1. Dermato-venerologicka klinicka zakladna UDL v Praze (vedouci MUDr. A. Kuta, CSc.).

VOLDANOVA, Anna

Role of antisepsis in local treatment of leg ulcers. Cesk. derm. 36
no. 7: 449-451 '61.

1. Dermatovenerologicka klinicka zakladna UDL v Praze Vedouci doc.
MUDr. Jan Obrtel, Dr. Sc.

(VARICOSE ULCER ther)

~~REF ID: A6510~~

VOLDANOVÁ, MD [affiliation not given].

"Sixtieth birthday of Professor Dr J. OBRTEL"

Prague, Casopis Lekaru Ceskych, Vol CII, no 32/33, 16 August
1963, p 920.

Abstract: A short biography of Jan OBRTEL, MD, Dr of Sciences, professor at the Second Dermatological Clinic (II. kozni klinika) at the Faculty of General Medicine (Fakulta všeobecného lekarství), Charles University, Prague, and director of the Dermatological and Venereological Chair at the Institute for the Post-graduate Training of Physicians (Ustav pro doskolení lekarů) in Prague, born 30 June 1903.

1/1
2050

CHERNOV, V.A., prof.; VOLDARSKAYA, S.M.; GAVRILOVA, A.I.

Antineoplastic activity and toxicity of some ethylene imides of phosphoric and phosphinic acids in connection with their structure.
Farm. i toks. 28 no.1:70-73 Ja-F '65.

(MIRA 18:12)

1. Laboratoriya eksperimental'noy khimioterapii opukholey (rukoveditel' - prof. V.A.Chernov) Vsesoyuznogo nauchno-issledovatel'skogo khimiko-farmatsevticheskogo instituta, Moskva. Submitted November 17, 1963.

VOLDARSKIY, Lev Iosifovich

[Practical manual on the collection and procurement of wild medicinal plants] Prakticheskoe rukovodstvo po sboru i zagotovke dikorastushchikh lekarstvennykh rastenii. Moskva, Medgiz, 1959. 278 p.

(MIRA 13:7)

(BOTANY, MEDICAL)

VOLDAVETS, V.I.

Passive and active protection during catastrophic volcanic eruptions. Biul. Vulk. sta. no. 28:79-91 '59. (MIRA 13:12)
(Volcanoes)

CHERKASOV, A.S.; VOLDAYKINA, K.G.

Absorption and fluorescence of vinyl anthracenes and changes
in the configuration of molecules in the excited state. ~~UDK 535.354.72.01~~ AN SSSR
Ser. fiz. 27 no.5:628-633 My '63. (MIRA 16:6)

(Anthracene--Spectra)

S/190/63/005/001/011/020
B101/B186

AUTHORS: Cherkasov, A. S., Voldaykina, K. G.

TITLE: Spectroscopic study of the interaction between anthracene derivatives and monomers during polymerization. II.
Interaction of anthracene with styrene

PERIODICAL: Vysokomolekulyarnyye soyedineniya, v. 5, no. 1, 1963, 79-86

TEXT: Anthracene was dissolved in styrene and was polymerized, both with and without benzoyl peroxide, in order to explain the behavior of luminescing plastics. The time of heating was varied between 1 and 150 hrs, the temperature was kept between 80 and 154°C, and the concentration of anthracene was changed between 0.5 and 15.2%. Low-molecular products were removed from the polymer by reprecipitation, and its absorption and fluorescence spectra were recorded. The existence of a weak absorption band in the region of long waves (26900 cm^{-1}) indicated hydrogen substitution in the meso-position of anthracene by styrene or polystyrene. Its fluorescence spectrum also corresponded to that of

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S/190/63/005/001/011/020

B101/B186

Spectroscopic study of the ...

monosubstituted anthracene. The conversion of 5% anthracene into styrene anthracene or polystyrene anthracene was estimated from the intensity of absorption band. The polymer contained 20 - 28% of the anthracene addition, whatever the polymerization conditions. Polymerization of

anthracene dissolved in styrene at 144°C showed that during the first 4 hrs the ratio polymerization degree : degree of anthracene conversion remained constant at 0.5 independently of the initial anthracene concentration (0.5 - 2.4%). The synthesis of the anthracene-styrene adduct was reached after 150 hrs at 120°C, and after 4 hrs at 200 - 210°C. A crystalline substance, m. p. 95 - 96.5°C, was obtained, whose molecular weight corresponded to an adduct consisting of 1 molecule anthracene and 1 molecule styrene. Its absorption spectrum confirmed the addition of styrene in the 9, 10 positions of anthracene, which again proves a diene synthesis. Heating to 260°C caused decomposition. The absorption and fluorescence spectra of the substance crystallized by cooling (m. p. 193 - 200°C) corresponded to those of anthracene. There are 4 figures and 1 table.

Card 2/3

Spectroscopic study of the ...

S/190/63/005/001/011/020
B101/B186

SUBMITTED: July 18, 1961

✓

Card 3/3

CHERKASOV, A.S.; VOLDAYKINA, K.G.

Spectral investigation of the interaction between anthracene derivatives and monomers in the process of polymerization.
Part 2: Reaction of anthracene with styrene. Vysokom. soed.
5 no.1:79-87 Ja '63. (MIRA 16:1)
(Anthracene) (Styrene) (Polymerization)

CHERKASOV, A.S.; VOLDAYKINA, K.G.

Spectral study of the products obtained from the polymerization of
styrene with 9-vinylanthracene additions. Vysokom. soed. 3 no.4:570-
576 Ap '61. (Anthracene) (Styrene) (MIRA 14:4)

VLB R-14-1-1

51-4-3-9/30

AUTHORS: Cherkasov, A.S., Tishchenko, G.A. and Voldayrina, E.G.

TITLE: Photoluminescent Characteristics and Relative Intensities of Scintillations of Plastic Scintillators Containing Anthracene Derivatives.

(O fotolyuminestsentnykh kharakteristikakh i
otnositel'nykh intensivnostyakh stsintillyatsiy
plasticheskikh stsintillyatorov s proizvodnymi
antratsena.)

PERIODICAL: Optika i Spektroskopiya, 1958, Vol.IV, Nr.3,
pp. 344-347 (USSR)

ABSTRACT: Anthracene was one of the first substances used to make plastic scintillators (Ref.1). The authors studied scintillators which contained various derivatives of anthracene. These scintillators were prepared by polymerization of styrene in which the studied substance (2% by weight) was dissolved. The relative magnitudes of scintillation pulses under the action of γ -rays and the fluorescence spectra, quantum yields of fluorescence and durations of the excited state of the scintillators were studied. Samples were prepared and their scintillation efficiency was measured at the Institute of High-Molecular Compounds of the Academy of Sciences

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51-4-3-9/30

Photoluminescent Characteristics and Relative Intensities of
Scintillations of Plastic Scintillators Containing Anthracene
Derivatives.

of the USSR in M.M. Koton's laboratory. Fluorescence was excited by mercury lines of about $365 \text{ m}\mu$ wavelength. Quantum yields were found from the ratios of areas bounded by fluorescence spectra. Durations of the excited state were measured by means of a fluorometer as described in Ref.3. The relative magnitudes of scintillation pulses obtained using various derivatives of anthracene are given in the table on p.345. For derivatives with alkyl, aryl, methoxy-, acetoxy- and acetylamino-groups in meso-positions of the anthracene nucleus or alkyl substituents in α - and β -positions of anthracene an increase of the pulse heights is observed compared with plastic scintillators containing anthracene itself. The most effective are diaryl derivatives of anthracene, particularly 9,10-diphenyl and 9,10-di-(n-anisyl)-anthracene (their efficiency is of the same order as that of scintillators with terphenyl). Introduction of methyl groups into phenyl rings or into m - and n -positions of diphenylanthracene lowers the

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51-4-3-9/30

-- Photoluminescent Characteristics and Relative Intensities of
Scintillations of Plastic Scintillators Containing Anthracene
Derivatives.

relative pulse height, compared with the most effective compounds. From the relative quantum yields and the known value of the absolute quantum yield of fluorescence of anthracene dissolved in benzene, the absolute quantum yields of fluorescence of scintillators with anthracene derivatives were calculated. In almost all compounds studied here the absolute quantum yields are high, and in the case of diaryl derivatives they are close to unity (see table on p.345). The authors conclude that of the studied anthracene derivatives the best scintillators can be obtained using mesoaryl derivatives of anthracene, whose scintillations are 2.5-3 times more intense than anthracene scintillations. The same scintillators have also the shortest duration of the excited state (of the order of 10^{-8} sec). The high relative intensity of scintillations of mesoaryl derivatives of anthracene is due to their high quantum yields of fluorescence, nearness of the fluorescence

Card 3/4

52-4-3-9/30

Photoluminescent Characteristics and Relative Intensities of
Scintillations of Plastic Scintillators Containing Anthracene
Derivatives.

maximum to the maximum of photomultiplier intensity
and good transparency for their own fluorescence.

There is 1 table, 1 figure and 4 references, of which
2 are Soviet, 1 American and 1 English.

ASSOCIATION: State Optics Institute imeni S.I. Vavilov.
(Gosudarstvennyy opticheskiy institut im. S.I. Vavilova.)

SUBMITTED: June 21, 1957.

1. Scintillation counters—Materials—Properties 2. Anthracenes
—Derivatives—Applications

Card 4/4

CHERKASOV, A.S.; VOLDAYKINA, K.G.

Copolymerization of 2-vinyl-9,10-diphenylanthracene with styrene.
Vysokom. soed. 7 no.1:175-179 Ja '65.

(MIRA 18:5)

Voldaykina, K. G.

USSR/Physical Chemistry, Photo Chemistry, Radiation Chemistry,
Theory of Photographic Process. B-10

Abs Jour : Ref Zhur - Khimiya, No 7, 1957, 22450.

Author : A. S. Cherkasov, V. A. Molchanov, T. M. Vember, K. G. Voldaykina.
Inst : Not given
Title : Fluorescence duration of anthracene mesoderivatives.

Orig Pub : Dokl. A.N. USSR, 1956, 109, No 2, 292-294.

Abstract : Average durations of fluorescences (τ_e) of anthracene solutions (Λ) and 46 of its mesoderivatives (alkyl-, aryl-, galo-
geno-amino-, acetyl-nitro-, methoxy- and a series of others
replaced by (A) are measured on a phase-fluorometer in C_2H_5OH
at indoor temperature. Values of τ_e for the indicated A- deri-
vatives lie in the range of $1.0-12.0 \cdot 10^{-9}$ sec. Values of τ_e
divided by the amount of the absolute quantum yield of sub-
stances of fluorescence (η) measured in the same conditions,
are compared with the maximum span of life of the 1st excited
state of τ_a , obtained from the area of the long wave band of
absorption of the A derivative solutions. It is shown, that
the values τ_e/η and τ_a coincide better if the computation of
 τ_a will be effectuated on the basis of the formula proposed by

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-151-

USSR/Physical Chemistry, Photo Chemistry, Radiation Chemistry,
Theory of Photographic Process.

B-10

Abs Jour : Ref Zhur - Khimiya, No 7, 1957, 22450.

Forster (Forster T. Fluoreszenz organischer Verbindungen, Cottingen 1951, S.158) than by usual formula of Kravz-Einstein. τ_a and $\tau_{e,n}$ (n concords well in case of derivatives at which n is greater than at Λ). The diminishing of the value of τ , $\tau_{e,n} > \tau_a$ in case of substitutes is explained in this case by the presence of damping, not related to the decrease of τ .

Card 2/2

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VOLDAYKINA, K.G.

CHERKASSOV, A.S.; TISHCHENKO, G.A.; VOLDAYKINA, K.G.

Photoluminescence characteristics and relative scintillation
intensities of plastic scintillators with anthracene derivatives.
Opt. i spektr. 4 no.3:344-347 Mr '58. (MIRA 11:4)

1. Gosudarstvennyy opticheskiy institut im. S.I. Vavilova.
(Luminescence) (Anthracene)

"APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001860420014-5

...and the introduction of 47 new derivatives.

APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001860420014-5"

CHERKASOV, A.S.; MOLCHANOV, V.A.; VEMBER, T.M.; VOLDAYKINA, K.G.

Duration of fluorescence for mesoderivatives of anthracene. Dokl.
AN SSSR 109 no.2:292-294 J1 '56. (MLRA 9310)

1. Predstavleno akademikom A.N. Tereninym.
(Anthracene) (Fluorescence)

L 10160-63

EPF(c)/EWT(m)/BDS--ASD--Pr-4--

RM/MAY

ACCESSION NR: AP3000314

S/0048/63/027/005/0628/0633

59

AUTHOR: Cherkasov, A. S.; Voldaykina, K. G.

TITLE: Absorption and fluorescence of vinyl anthracenes and change of the molecular configuration due to excitation [Report: Eleventh Conference on Luminescence held at Minsk 10-15 Sept. 1962]

SOURCE: Izvestiya AN SSSR. Seriya fizicheskaya, v. 27, no. 5, 1963, 628-633

TOPIC TAGS: methyl anthracenes, vinyl anthracenes, anthracene, fluorescence, molecular absorption

ABSTRACT: As a result of investigation (Cherkasov, A. S., Doklady AN SSSR, 125, 848, 1951) of anthracene derivatives with an alkyl group in the meso position in the anthracene nucleus it was found that such substituents have a minor effect on the absorption and fluorescence spectra of anthracene, namely, produce a shift of both spectra to the side of lower frequencies. It was deemed of interest to see how the spectra would be affected by changes in the position of the substitute; accordingly, there were synthesized and investigated 9-vinyl, 1-vinyl and 2-vinyl

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L 10160-63

ACCESSION NR: AP3000314

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anthracenes, steric hinderance in which differs. The spectra of the vinyl derivatives are compared with the spectra of the corresponding methyl derivatives. The effect of the substituents is attributed to enhanced interaction of the pi electrons of the substituent group with the pi electrons of the anthracene nucleus. It is shown that in the case of 2-vinyl anthracene in alcohol solutions there occurs cis-trans isomer conversion under the influence not only of temperature but also excitation. This is substantiated by the shift of the fluorescence spectrum as a result of addition of a quenching agent to the alcohol solution. Orig. art. has: 4 figures and 1 table.

ASSOCIATION: none

SUBMITTED: 00

DATE ACQ: 12Jun63

ENCL: 00

SUB CODE: PH

NR REF Sov: 002

OTHER: 004

Card 2/2

LAURENENKO, K.D., red.; UDOBEG, D.B., red.

[Power engineering of the world and its prospects for development; reports of the Sixth World Power Conference held in Melbourne in 1962. Mezhdunarodnaia perspektiva ee razvitiia; doklady VI Mirovoi energeticheskoi konferentsii v g. Mel'bourne v 1962 g. Red obnaruzhen red. K.D. Lavrenenko. Moskva, Izd-vo "Energiia," 1964. 252 p. (M. 1964)]

1. World Power Conference. 6th, Melbourne, 1962.

Vol'dbyue, F.

USSR/Inorganic Chemistry. Complex Compounds.

C

Abs Jour : Ref Zhur - Khimiya, No. 8, 1957, 26487.

Author : Vol'dbyue, F.

Inst :

Title : Method of Continuous Changes.

Orig Pub : Uspekhi khimii, 1956, 25, No. 10,
1294 - 1302

Abstract : See RZhKhim, 1956, 644.

Card 1/1

VOL'DBYUE, F. [Woldbye, F.]

Method of continuous variations (from "Acta Chem.Scand.", 9,299,
1955). Usp.khim.25 no.10:1294-1302 0 '56. (MLRA 9:12)
(Solution (Chemistry)) (Compounds, Complex)

USSR/Cultivated Plants - Grains. H.

Abs Jour : Ref Zhar - Biol., No 10, 1958, 44037

Author : Krasheninikov, N.N., Kargal'tseva, A?F?, Vol'de, I.S.

Inst : Fruit and Vegetable Institute imeni I.V. Michurin

Title : The Effect of the Pre-Sowing Compacting of the Soil on the Growth of the Secondary Roots and on the Stems of Spring Wheat.

Orig Pub : Tr. Plodovo-voshchn. in-ta im. I.V. Michurina, 1956, 9, 283-294

Abstract : The compacting of the soil by rolling secures and increase in the yield on an average by 2-3 centners/ha. Rolling improves the conditions of seed germination and the initial growth of the plants. It also increases the number of secondary roots and of the stems. The most effective

Card 1/2

USSR/Cultivated Plants - Grains.

M.

Abs Jour : Ref Zhur - Biol., No 10, 1958, 44037

rolling of the soil is that which reaches to the depth of the embedded seeds (5-6 cm).

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- 23 -

JANES, Hans; KAASIK, Paul; PUUSEPP, Eugen; VOLDEK, Aleksander; VORK, H.,
prof., retsenzent; OORN, F., inzh., retsenzent; ABO, L., red.;
VAHTRE, I., tekhn. red.

[Electric machinery] Elektrimasinad [By] H.Janes ja teised.
Tallinn, Eesti riiklik kirjastus, 1961. 647 p. (MIRA 15:5)
(Electric generators) (Electric transformers)

VOL'DEK, A. I.

23181 Induktsionnyy regulyator s soyedineniyem obmotok statora i potora v obshchiy treugol'nik (Abtoreferat). Elektrichestvo, 1949, No. 7, c. 55-57.

SO: LETOPIS' NO. 31, 1949.

VOL'DEK, A. I.

"Study of Leakage in Electric Machines," (Issledovaniye Rasseyaniya v elektricheskikh mashinakh) Elektricheskvo, No 7, 1950.

LPI (Leningrad Polytechnic Institute)
Dissertation for Candidate's Degree

VOL'DEK, A. I., Docent

USSR/Electricity - Motors, Induction Dec 51

"The Effect of an Uneven Air Gap Upon the Magnetic Field of an Induction Machine," Docent A. I. Vol'dek, Cand Tech Sci, Tallin Polytech inst

"Elektricheskvo" No 12, pp 40-46

The uneven air gap made by the teeth of the stator and rotor gives rise to groups of harmonics of the magnetic field which are not present with a uniform gap. Develops a method for calcg the fields of the higher harmonics. Gives curves

USSR/Electricity - Motors, Induction Dec 51
(Contd) 201T80

for detg the permeance of the air gap based on the soin of the problem of the magnetic field in the region of the slots by the method of conformal representation. Submitted 14 May 51.

201T80

VOL'DEK, A. I.

235T39

USSR/Electricity - Transformers Aug 52

"Equivalent Circuit of a Transformer and Its Parameters," Docent A. I. Vol'dek, Cand. Tech Sci, Tallin Polytech Inst

"Elektrichestvo" No 8, pp 21-55

Author analyzes equiv circuit of a transformer taking into account iron losses at a transformation ratio not equal to the ratio of number of turns. He shows that such circuits are characterized by neg effective resistances and inductances and examines means for compensation of errors in instrument (current) transformers. Submitted 10 Jan 51.

235T39

VOL'PEK, A. I.

Electrical Engineering Abstracts
May 1954
Machines

2
①

1890. Influence of the non-uniformity of the airgap
on the differential leakage of an ~~synchronous~~ machine.
A. I. Vol'pek. Elektrichesvo, 1953, No. 8, 32-8. In
Russian.

In normal operating conditions of an induction
machine, practically all the higher harmonics of stator
and rotor fields set up leakage fluxes which have to
be considered in the calculation of the so-called
differential leakage inductances. Only in machines
with short-circuited rotor does some damping of the
higher harmonics of the stator field take place. Owing
to the comparatively small width of the air gap the
differential leakage inductances are relatively large
and represent 25-40% of the total leakage inductance
of the machine. This requires a fairly accurate
calculation of the leakage inductances. This problem
has so far been solved only by assuming a uniform
air gap (infinitely small slot openings). The author
proves that the differential leakage reactance for non-
uniform air gaps may be determined by introducing
a correction in the expression of the differential
leakage coefficient derived for a uniform air gap.
Formulae and curves for determining this correction
factor are presented.

B. F. KRAUS

KOMAR, Yevgeniy Grigor'yevich; VOL'DEK, A.I., redaktor; ZABRODINA, A.A.,
tekhnicheskiy redaktor.

[Problems in designing turbogenerators] Voprosy proektirovaniia turbo-
generatorov. Moskva, Gos. energ. izd-vo, 1955. 352 p. (MLRA 8:6)
(Electric generators)

VOL'DEK, A.I.

VOL'DEK, A.I. "Investigation of the Inductivity of Leakage of the Frontal Portions of Windings on AC Electrical Machinery." Vin Higher Education USSR. Leningrad Polytechnic Institute imeni M.I. Kalinin. Tallin, 1956. (Dissertation for the Degree of Doctor in Technical Science)

So: Knizhnaya Letopis', No. 18, 1956,

KOSTENKO, Mikhail Poliyevkovich; PIOTROVSKIY, Lyudvik Mar'yanovich;
VOL'DEK, A.I., red.; ZABRODINA, A.A., tekhn. red.

[Electric machinery] Elektricheskie mashiny. Pt.2. [Alternating
current machinery] Mashiny peremennogo toka. 1958. 651 p. Moskva,
Gos. energ. izd-vo (MIRA 11:8)
(Electric machinery--Alternating current)

SOV/144-58-12-2/19

AUTHOR: Vol'dek, A.I., Dr.Tech.Sci., Docent, in charge of the
Chair

TITLE: The Magnetic Field of the Inductors in Linear Electro-
magnetic Pumps

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy,
Elektromekhanika, 1958, Nr 12, pp 14-20 (USSR)

ABSTRACT: A considerable amount of work has been done at the Tallin
Polytechnical Institute on the investigation of electro-
magnetic induction pumps. Some of the results of this
work are published in the paper; these deal primarily
with the theory of the induction pumps. A flat linear
induction pump is first considered (shown diagrammatically
in Fig 1). The inductor cores 1 are constructed from
electrical-steel sheets. The three-phase winding 2 is
situated in the slots at both the cores. The gap 3 having
a rectangular cross-section is made of a suitable metal or
alloy. The magnetic field in the gap of the pump is
evaluated under the following assumptions: (1) the
dimensions of the inductor in the plane xoy are infinite;
(2) the surfaces of the inductor contain no slots;
(3) the permeability of the cores is infinite; and ✓

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SOV/144-58-12-2/19

The Magnetic Field of the Inductors in Linear Electromagnetic Pumps

(4) the permeability in the gap is μ_0 . The magnetic field can be evaluated from the scalar magnetic potential φ which satisfies Eq (1). If it is assumed that φ is in the form of the second equation on p 16, where F_m is the amplitude of φ , and τ is the pole ratio, the amplitude F_m is given by the fifth equation on p 16. The final expression for the amplitude is in the form:

$$F_m = - \frac{B_0}{\mu_0 a} \cdot \frac{\text{sh}az}{\text{ch} \frac{a\delta}{2}} \quad (2)$$

where B is the field at $z = \delta/2$ (see Fig 1). The field in the centre of the gap is given by Eq (3). The so-called reduction coefficient k_n , which determines the ratio of the field at the boundary to the field in the centre, is given by Eq (5). The magnetising force F in both the inductor windings (per one pole) is expressed by Eq (6), where k''_n is expressed by Eq (7). The coefficients k_n and k''_n are plotted in Fig 3 as a function of δ/τ . A cylindrical linear electromagnetic pump is shown in Fig 2. Here, 1 and 4 represent the external and the internal ferromagnetic cores of the

Card 2/4

SOV/144-58-12-2/19

The Magnetic Field of the Inductors in Linear Electromagnetic Pumps
inductor, 2 is a three-phase winding situated in the slots
along the axis of the pump, and 3 is the gap of the pump
having an annular cross-section. The air gap of the pump
can be represented as shown in Fig 5. The magnetic
potential of the system can be evaluated from Eq (12).
The amplitude of the potential can be found from the
first equation on p 19. The solution of this is
represented by:

$$F_m = - \frac{B_0}{\mu_0 a} \cdot \frac{K_0(ar_2) \cdot I_0(ar) - I_0(ar_2) \cdot K_0(ar)}{K_0(ar_2) \cdot I_1(ar_1) + I_0(ar_2) \cdot K_1(ar_1)} \quad (13)$$

where I_1 and K_1 are modified Bessel functions of the
first and second kind of the first order, respectively.
The reduction coefficient is now given by Eq (15) and the
air gap coefficient k''_0 is expressed by Eq (16). The
values of the reduction coefficient k_n for the pump are
shown in Fig 6, while the coefficient k''_0 is plotted in
Fig 7.

Card 3/4 There are 7 figures and 9 references, 8 of which are
Soviet and 1 is English. One of the Soviet references
is translated from English. ✓

The Magnetic Field of the Inductors in Linear Electromagnetic Pumps
ASSOCIATION: Kafedra elektrifikatsii promyshlennykh predpriyatiy,
Card 4/4 Tallinskiy politekhnicheskiy institut
(Chair of Electrification of Industrial Undertakings,
Tallin Polytechnical Institute)
SUBMITTED: December 28, 1958

SOV/144-58-12-2/19

✓

Vernatory Magnetic Oscillations in Dielectric Plastics, by
V. V. Kostyuk, Proceedings of the Conference on Magnetic
Oscillations in Dielectrics, Riga, 1953, pp. 211-213.

Abstracts of Proceedings of the Conference on Magnetohydrodynamics and
Electro-Physics, 2-10 July 1958, Riga, 1959, 339 pp.

The majority of the texts of the 55 conference reports and discussions
of reports are presented in the source in abridged form. Previously pub-
lished reports are included there as brief abstracts only. The material
follows:

"Stability Methods and Physical Modelling in the Study of Electro-
magnetic Processes in Liquid Metals," by I. M. Khrab, Riga, pp. 201-210;
Discussion on the Report by I. M. Khrab, Riga, pp. 211-213.

(Abstract of article, "Model of an Infinitely Long Channel with Liquid
Metal Located In a Traveling Magnetic Field," by I. M. Khrab, I. V. Tsar-
kov, I. A. Sosulin (seconded), and L. Ya. Umanova, Riga, Latvia,
Published in Mechanics of Electrical Conductivity, Vol. 12, No. 2, Riga,
1958, p. 201, p. 203, p. 205, p. 207, p. 209, p. 211, p. 213, p. 215, p. 217, p. 219, p. 221, p. 223, p. 225, p. 227, p. 229, p. 231, p. 233, p. 235, p. 237, p. 239, p. 241, p. 243, p. 245, p. 247, p. 249, p. 251, p. 253, p. 255, p. 257, p. 259, p. 261, p. 263, p. 265, p. 267, p. 269, p. 271, p. 273, p. 275, p. 277, p. 279, p. 281, p. 283, p. 285, p. 287, p. 289, p. 291, p. 293, p. 295, p. 297, p. 299, p. 301, p. 303, p. 305, p. 307, p. 309, p. 311, p. 313, p. 315, p. 317, p. 319, p. 321, p. 323, p. 325, p. 327, p. 329, p. 331, p. 333, p. 335, p. 337, p. 339, p. 341, p. 343, p. 345, p. 347, p. 349, p. 351, p. 353, p. 355, p. 357, p. 359, p. 361, p. 363, p. 365, p. 367, p. 369, p. 371, p. 373, p. 375, p. 377, p. 379, p. 381, p. 383, p. 385, p. 387, p. 389, p. 391, p. 393, p. 395, p. 397, p. 399, p. 401, p. 403, p. 405, p. 407, p. 409, p. 411, p. 413, p. 415, p. 417, p. 419, p. 421, p. 423, p. 425, p. 427, p. 429, p. 431, p. 433, p. 435, p. 437, p. 439, p. 441, p. 443, p. 445, p. 447, p. 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Kontsevitsya po magnetnoi elektrodinamike. Riga, 1958.

Voprosy magnetnoi elektrodinamiki i atomnogo plazmy, trudy konferentsii. Voprosy magnetnoi elektrodinamiki i atomnogo plazmy. Trudy konferentsii. Trudy konferentsii. Riga, 1958. Zapiski po magnetnoi plazme i plazmich dinamicheskikh protsessakh. Trudy konferentsii. Riga, 1958. 315 p. Strukta silya izdani. 1,000 copii printed.

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M. I. L. Sop'ial'baum. Tech. Ed. A. El'yanov.

PREFACE: This book is intended for physicists working in the field of magnetohydrodynamics and plasma dynamics. The transactions of a conference held in Riga, June 1958, on problems in applied and theoretical magnetohydrodynamics. The objects of the conference were the investigation of the basic trends in theoretical and applied magnetohydrodynamics, establishing contact between theoretical and applied magnetohydrodynamics, and plasma hydrodynamics and investigating the participation of theoretical physicists in problems in applied magnetohydrodynamics. More than 150 persons from different parts of the Soviet Union took part in the conference, and 55 papers were read. Similar conferences are to be held regularly in the future; the next such conference is scheduled to take place in Riga in June 1960. The book presents a collection of the transactions of the conference, most of the papers and comments on papers are presented by the authors themselves in an abridged form. The book is divided into two parts: the first part deals with problems in theoretical magnetohydrodynamics and plasma dynamics, and consists of 35 articles on such aspects of the problems as the application of magnetohydrodynamics in astrophysics (D.A. Frank-Kamenetskii), magnetohydrodynamics and the investigation of atomic-ray variations (I.V. Dostrovskii), magnetohydrodynamics and the investigation of acoustic-wave variations (G.V. Gordeev and I.I. Ochabov), magnetohydrodynamics (A.I. Akhiezer). The second part, consisting of 35 articles, deals with problems of experimental magnetohydrodynamics, including the application of physical simulation for investigation of electromechanical processes in liquid metals (I.M. Kitaev) and the development of a magnetohydrodynamic pump (P.O. Kirillov). At the Institute of Physics of the Academy of Sciences, Leningrad, several articles are devoted to induction pumping, electromagnetic crucibles, electromagnetic stirrers for molten metals, and their application in the metallurgical industry including schematic diagrams of their power-supply systems. References are given at the end of most of the articles.

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